

Program Planning Template

2014 – 2017 Programs

GY 4 – 6; EY 7 - 9

Program Applicable for: Ameren _____ ComEd _____ DCEO x
Nicor _____ People's Gas/North Shore Gas _____

Program Name	Public Sector Natural Gas Boiler Tune-Up Program (2014 through 2017)
Objective	To improve the energy efficiency and operational safety of a Boiler system by encouraging proper maintenance practices and installing equipment upgrades.
Target Market	Public sector entities such as Local Governments, Municipal Corporations, public K-12 schools, community colleges, public universities and state/federal facilities
Program Duration	Beginning June 1, 2014 and continuing throughout the three-year EEPS plan period
Program Description	<p>The Public Sector Natural Gas Boiler Tune-Up Program ("Tune-Up Program") will provide natural gas savings through improvement in boiler efficiency and, when needed, through mechanical (pipe) insulation and steam trap replacement. Further improvements can be achieved by installing Boiler Reset controls and Parallel Positioning Control systems when possible.</p> <p>The Tune-Up Program provides a cash incentive to encourage the owners of Natural Gas Boilers to invest in a Boiler Tune-Up conducted by a qualified contractor. The Tune-Up should result, on average, in a 1.6% efficiency gain in the operation of the boiler according to the IL TRM. While conducting the Boiler Tune-Up, the program encourages contractors to look for further energy savings opportunities within the boiler system. Those measures currently are (could be expanded or removed based on market conditions)</p> <ul style="list-style-type: none">- Mechanical (pipe) insulation repair/installment on damaged/missing insulation- Steam trap repair/replacement available for traps that fail "open" and are losing steam- Boiler reset controls installation to vary match hot water temperature with weather conditions- Parallel Positioning Controls (PPC) systems to separately control air and fuel mixing thereby improving the burner's efficiency <p>Other energy saving measures (not covered under this program offering), can also be identified by the contractors and incentives for these measures can be applied for separately through the DCEO Standard or Custom programs.</p>
Eligible Customers	The Tune-Up Program will, to the extent funds are available, provide incentives for projects that increase the energy efficiency of local governments, municipal corporations, public school districts, community college districts, public universities, and state/federal facilities located in the service territories of Ameren Illinois ("Ameren"), Nicor Gas ("Nicor"), Peoples Gas ("Peoples"), and/or North Shore Gas ("North Shore").
Eligible Measures	<p>Measures available under the Boiler Tune-Up program, on a prescriptive basis, are:</p> <ul style="list-style-type: none">- Boiler tune-ups- Mechanical (pipe) insulation repair/installment- Steam trap repair/replacement- Boiler reset controls- Parallel Positioning Controls (PPC) systems

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Implementation Strategy	<p>The program will utilize qualified contractors active in Illinois to perform the tune-ups and repairs / replacements needed in different projects. Use of professional contractors is required for Boiler Tune-Ups, Reset Controls and Parallel Positioning Control systems for safety reasons, but in-house staff can perform pipe insulation repairs and steam traps repair / replacements. Boiler Tune-Ups require a before and after combustion analysis to certify the efficiency improvement and correct boiler operations. For both pipe insulation and steam traps, testing of the system is required to prove the need of repairs. Testing on steam traps can be done via Ultrasounds or via Infrared Imaging, while pipe insulation repair needs can be documented via pictures of the existing piping or via Infrared Imaging that shows the thermal losses.</p> <p>Staff from the Energy Resources Center (ERC) at the University of Illinois at Chicago will process the applications while Utilivate Technologies will process the payments in a timely and efficient manner.</p>
Marketing Strategy	<p>Because of the broad and diverse customer base, ranging from Schools to municipalities to Colleges, collaboration with different industry organizations is essential. ERC will work with those entities to promote the program and ensure that members are well aware of the program benefits and incentives. ERC will work with organizations such as the Smart Energy Design Assistance Center (SEDAC) at the University of Illinois Urbana-Champaign, the Illinois Association of Park Districts (IAPD), the Illinois Association of School Boards (IASB), the Illinois Association of School Administrators, DCEO program implementers and other organizations. These organizations will pass along marketing material such as brochures, presentations and guidelines of the program, and help promote online events such as informational webinars or live events such as workshops and trade shows. ERC staff will participate to conferences, workshops and events in Illinois that will help to reach the widest possible audience of potential program applicants.</p> <p>Moreover, mechanical contractors are probably the best outreach and marketing tool available to the program, because they are talking with potential program participants every day. By leveraging the DCEO Trade Ally network, staff will be able to engage contractors active in Illinois that can use the program to market their own services. ERC does not promote any one contractor, but will provide educational material, one-on-one consultations and assistance by phone or in person to help contractors understand the terms of the program and how to be effective in both converting customers and achieving greater efficiency gains. ERC staff will also provide, for both customers and contractors, assistance to successfully complete the application process and provide all the necessary information.</p>

Program Name	Public Sector Natural Gas Boiler Tune-Up Program (2014 through 2017)			
Incentive Levels	Incentives are set as follows:			
	- Boiler Tune-Up \$0.50/kbtuh (up to \$1,500)			
	- Pipe Insulation installation			
	Nominal Pipe Size		Incentive	
	< 1"		\$8/ft	
	1 1/4" - 2"		\$10/ft	
	2 1/2" - 5"		\$16/ft	
	Over 5"		\$20/ft	
	- Steam Trap replacement			
	Line Pressure		Incentive	
< 14 psig		\$200		
15-49 psig		\$255		
50 – 124 psig		\$400		
Over 125 psig		\$600		
- Boiler Reset Controls \$0.75/kbtuh (up to \$1,200 per boiler)				
- Parallel Positioning Control System \$3.00/Therm saved per year (up to 75% of project cost)				
Milestones	<ul style="list-style-type: none">• February 2014: Commission approval• March-May: Final program design and protocol development• June 2014: Public Sector Boiler Tune-Up Program launch (for 2014 through 2017)			
Estimated Participation		Year 7	Year 8	Year 9
		Participation	Participation	Participation
	Tune-Ups	300	300	300
	Steam Traps	750	750	750
	Pipe Insulation (ft)	4,000	4,000	4,000
	Reset Controls	10	10	10
	Parallel Positioning Controls	5	5	5

Program Name	Public Sector Natural Gas Boiler Tune-Up Program (2014 through 2017)				
Estimated Budget					
	Gas Budget Information Total Program				
	Budget Category	Year 1	Year 2	Year 3	Total
	Program Implementation	\$121,541	\$121,541	\$121,541	\$364,622
	Portfolio Admin	\$55,561	\$54,834	\$55,561	\$165,955
	Incentives	\$378,504	\$378,504	\$378,504	\$1,135,512
	Total	\$555,605	\$554,879	\$555,605	\$1,666,089
	Ameren (15.9%)				
	Budget Category	Year 1	Year 2	Year 3	Total
	Program Implementation	\$21,541	\$21,541	\$21,541	\$64,622
	Portfolio Admin	\$8,844	\$8,117	\$8,844	\$25,805
	Incentives	\$58,054	\$58,054	\$58,054	\$174,162
	Total	\$88,439	\$87,712	\$88,439	\$264,589
	NICOR (53.2%)				
	Budget Category	Year 1	Year 2	Year 3	Total
	Program Implementation	\$63,230	\$63,230	\$63,230	\$189,691
	Portfolio Admin	\$29,539	\$29,539	\$29,539	\$88,617
	Incentives	\$202,621	\$202,621	\$202,621	\$607,864
	Total	\$295,391	\$295,391	\$295,391	\$886,172
	People's Gas (25.0%)				
	Budget Category	Year 1	Year 2	Year 3	Total
	Program Implementation	\$29,777	\$29,777	\$29,777	\$89,331
	Portfolio Admin	\$13,911	\$13,911	\$13,911	\$41,732
	Incentives	\$95,420	\$95,420	\$95,420	\$286,261
Total	\$139,108	\$139,108	\$139,108	\$417,325	
North Shore (5.9%)					
Budget Category	Year 1	Year 2	Year 3	Total	
Program Implementation	\$6,993	\$6,993	\$6,993	\$20,978	
Portfolio Admin	\$3,267	\$3,267	\$3,267	\$9,800	
Incentives	\$22,408	\$22,408	\$22,408	\$67,224	
Total	\$32,668	\$32,668	\$32,668	\$98,003	

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Savings Targets		Year 1	Year 2	Year 3	Total
		Therms	Therms	Therms	Therms
	Ameren (15.9%)	28,813	28,813	28,813	86,439
	Nicor (53.2%)	350,689	350,689	350,689	1,052,067
	Peoples (25.0%)	165,150	165,150	165,150	495,449
	North Shore (5.9%)	38,783	38,783	38,783	116,349
	Total Gross Gas	583,435	583,435	583,435	1,750,304
	Total Net Gas Savings (80% NTG)	466,748	466,748	466,748	1,400,243
Other Program Metrics		Statewide			
	TRC	5.38			
	TRC w/NEBs	5.92			